June 25, 2001

Customer

NOTICE: Halder Two and Four Port Relay Valves

Manufactured From September 19, 2000 - February 10, 2001

NHTSA FUe: 01E-020.001

Dear Customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Haldez Brake Systems (Haldez) has notified Meritor WABCO that a defect rolating to motor vehicle safety exists in two and four port relay valves that Haldez manufactured between September 19, 2000 and February 10, 2001. The affected relay valves generally are used to control the service brake system and/or the parking brake system on power units equipped with a pneumatic braking system.

DEFECT:

Haldax has indicated that the defect results from a rough microfinish on the mating surface of the valve modulation tube. In cold weather environments, the rough microfinish may cause the exhaust relay valve to remain open when a high pressure application is released. If this occurs, the service brake system and/or park brake system may lose all air pressure. In a park brake system, an open relay valve will prevent the compressor from building system air pressure and the parking brake may not release. In a service brake system application, use of the primary brake system may be lost which will be accompanied by a low pressure warning buzzer.

-Maritor WABCO is unaware of any apridents or injuries resulting from this defect. TAKL out

(SEC fax :

RECOMMENDED ACTION:

Haldax recommends all relay valves manufactured between September 19, 2000 and February 10, 2001 be repaired or replaced. Haldex further recommends that service brake relay valves be repaired or replaced as a Safety Defect Campaign and that parking brake relay valves be repaired or replaced as a Field Service Campaign.

PARTS INVOLVED:

This action affects all relay valves identified by the part numbers shown below that were manufactured by Haklex between September 19, 2000 and February 10, 2001.

Meditor WABCO PN	Haldex PN	Meritor WABCO PN	Haldex PN
973 298 001 0	N30100AD	973 298 032 0	N30111A
973 298 004 0	N30096F	973 298 033 0	N30111B
973 298 005 0	N30096J	973 298 034 0	N30111C
973 298 00 6 0	N30096L	973 298 035 0	N30100JA
973 298 007 0	N30096M	973 298 036 0	N30100JB
973 298 008 0	N30096N	973 298 037 0	N30100JC
973 298 009 0	N30096P	973 298 038 0	N30100JD
973 29 8 010 0	N30096PA	973 298 040 0	N30100KA
973 298 011 0	N30096T	973 298 044 0	N30100KE
973 298 013 0	N30106F	973 298 046 0	N30100KG
973 298 031 0	N30111	973 298 047 0	N30100KH
		973 298 057 0	N30111F
		973 898 001 0	N30100AR
	•	973 898 005 0	N30100AG

The manufacturing date of the relay valve is identified by a date code on a metal rag attached to one of the four cover bolts. The suspect date codes are as follows:

380K	420K	460K	500K	021K
390K	430K	470K	\$1 0K	031K
400K	440K	480K	520K	041K
410 K	450K	490K	011 K	051K
				061K

Our records indicate the following potentially affected relay valves were shipped to Freightliner in the time period between September 19, 2000 and February 10, 2001:

Part Number	Quantity
973 298 007 0	20
973 298 009 0	5820

CORRECTIVE ACTION:

All suspect relay valves should be repaired using Haldex Brake Kit #SK13569 or completely replaced. Vehicles should be taken to an OEM certified dealership to complete this service action. Questions or requests for literature and information may be directed to the Meritor WABCO Customer Service Center at 1-800-535-5560 or the Haldex Customer Service Center at 1-316-365-6911.

If you conclude that Meritor WABCO has not enabled you to remedy this condition without charge and in a reasonable time, you may submit a complaint to the:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

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Call the toll free Auto Safety Hotline: 1-800-424-9393 (Washington D.C. residents call 202-366-0123)

We regret any inconvenience that this situation may cause, but assure you that Meritor WABCO's concern is for customer safety and your communed satisfaction with our products. We are committed to doing our unmost to quickly resolve this issue. If you have any questions or concerns about this campaign, please do not he situate to call me.

Sincerely,

Bill Broaggernan Program Administrator

Phone: 859-746-5956 Fax: 859-525-3779

Email: Bill.Brueggeman@arvinmeritor.com

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r -	LISTING BY PART NUMBER	-
$\vdash+$	Shipments 9/19/00 to 2/10/01	
 -+	Outpitizatio de 1900 de 2 (90)	· -
Part		Qty
Number	Customer	Shipped
9738680050	Advance Mixer	22
9732980010	Advanced Mixer	380
8732980040	Chance	19
9732980100	Chence	20
		
973298 <u>006</u> 0	Emergency	15
9732980050	Emergency	74
0700040046	E	50
9732980040	Foretravel	 80 -
9732980070	Freightliner	20
9732980090	Freightliner	5820
3, 42,444		
9732980010	Hyepeco	65
9732980040	Hyspeco	102
1070		
9732990100	Mack	10
9732980310	Mack	2413
9732980320	Magk	100
9732960330	Mack	_358
9732960340	Mack	31
9732980350	Mack	16
9732960380	Mack	2773
9732980380	Mack	817
9732980400	Mack	2435
9732980440	Mack	6
9/32980480	Mack	144
9732980040	Meanum	300
3/02900040	Magnum	
9732960010	Monaco	180G
9798960050	Monaco	1390
		1000
9732960010	MW	11
8732980330	MW	3
9732960010	SMC	36
9732980130	SMC	34
9732980090	Volvo	32
		 _
9732980050	Western Star	50
		- -
9732980370 9732980470		0-
9732990570		
9738980010		-
	Total	19331
 		1.555
 		-
 		<u> </u>
		<u> </u>

	LISTING BY PART NUMBER	
	Shipments 9/19/00 to 2/10/01	
Part		Qty
Number	Customer	Shipped
┞───┼╴	Aftermarket	-
RKN28060		216
RKN29061		30
RKN28065		48
RKN28067		34
RKN28071		72
RKN26085	 	84
RKN28131		36
RKN26132		38
RIKN28140	·	444
RICN2B300		15
FIN30096E		196

ArvinMeritor.

Joseph G. Muscodero

Oirector of Quality Worldwide Braking Systems

ArvinMeritor, Inc. 2135 W. Maple Road Troy, MI 48084-7186

teli **248.485.8682** celi phone **248.701.0089**

e-mail Joseph.Muscadere@ArvinMeritor.com

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Mariene E. Verhees

Director Quality, Worldwide Trailer Products, Axles & Drivelines

ArvinMeritor, Inc. 2135 W. Maple Road Troy, MI 48084-7186

tel 248.438.8415 fex 248.435.8682 cell phone 248.877.0438

e-mail Mariene.Vorhees@ArvinMeritor.com

December 13, 2001

Monaco customer Address Address City, State

Subject: Campaign Notice: Haldex Two and Four Port Relay Valves Manufactured From September 19, 2000 – February 10, 2001 and installed in Moneco Coach Vehicles.

Ref. NHTSA File: 01E-020,001

Dear Monaco customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor. Vehicle Safety Act.

Haldex has decided that a defect that relates to motor vehicle safety exists in two and four port relay valves used to Meritor WABCO air brake and/or parking brake systems installed in your vehicle. Meritor WABCO is providing this Notification on behalf of Haldex and Monaco Coach Corporation.

Monaco Coach has examined their manufacturing records and determined that your vehicle is equipped with a Mentor WABCO ABS system that is affected by this Notice.

General Information:

Haldex has indicated that the defect results from a rough microfinish on the mating surface of the valve modulation tube. In cold weather environments, the rough microfinish may cause the exhaust roley valve to remain open when a high pressure application is released. If this occurs, the service brake system and/or park brake system may lose all air pressure. In a park brake system, an open relay valve will prevent the compressor from building system air pressure and the parking brake may not release. In a service brake system application, use of the primary brake system may be lost which will be accompanied by a low pressure warning buzzer.

Haldex recommends all relay valves manufactured between September 19, 2000 and February 10, 2001 be repaired or replaced. Haldex further recommends that service brake relay valves be repaired or replaced as a Safety Defect Compaign and that parking brake relay valves be repaired or replaced as a filed Service Compaign. Repair of each valve should take 0.75 hours. This service will be performed at no cost to the customer.

This action affects all 973 298 001 0 and 973 898 005 0 relay valves that were menufactured by Haldex between September 19, 2000 and February 10, 2001 and sold by MeritorWABCO to Monaco Coach.

The manufacturing date of the relay valve is identified by a date code on a metal tag attached to one of the four cover boits. The suspect date codes are as follows:

380K	420K	460K	600K	D21K
390K	430K	470K	610K	031K
400K	440K	480K	520K	041K
410 K	450K	490K	D11K	061K
				061K

All suspect relay visives should be repaired using Haldex Brake Kit #RN16JY or completely replaced. Vehicles should be taken to an OEM certified dealership to complete this service action. Questions, requests for literature, and warranty claim processing should be directed to Don Myers at Haldex. He can be reached at telephone number 816-801-2641 or fax number 816-891-9432.

Questions or Complaints:

If you conclude that Maritor WABCO or Monaco Coach Corporation has not enabled you to remedy this condition in a reasonable time, you may submit a complete to the:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 205090

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Call the toll free Auto Safety Hotline: 1-800-DASH - 2 DOT or 1-888-327-4236

Meritor WABCO regrets any inconvenience that this situation may cause. Let me assure you that your eafety is our most important concern.

Sincerely,

Meritor WABCO

Bill Brueggeman Warranty Administrator

Copy: NHTSA

December 13, 2001 Megnum customer Address Address City, State

Subject: Campaign Notice: Heldex Two and Four Port Relay Velves Manufactured From September 19, 2000 – February 10, 2001 and Installed in Magnum Terminal Tractors.

Ref. NHTSA File: 01E-020.001

Dear Magnum customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor. Vehicle Safety Act.

Haldex has decided that a defect that relates to motor vehicle safety exists in two and four port relay valves used in Meritor WABCO air brake and/or parking brake systems installed in your vehicle. Meritor WABCO is providing this Notification on behalf of Haldex and Magnum Terminal Tractors.

Magnum Terminal has exemined their manufacturing records and determined that your vehicle is equipped with a Meritor WABCO ABS system that is affected by this Notice.

General Information:

Haldes has indicated that the defect results from a rough microfinish on the mating surface of the valve modulation tube. In cold weather environments, the rough microfinish may cause the exhaust relay valve to remain open when a high pressure application is released. If this occurs, the service brake system and/or park brake system may lose all air pressure. In a park brake system, an open relay valve will prevent the compressor from building system air pressure and the parking brake may not release. In a service brake system application, use of the primary brake system may be lost which will be accompanied by a low pressure warning buzzer.

Haldex recommends all relay valves manufactured between September 19, 2000 and February 10, 2001 be repaired or replaced. Haldex further recommends that service brake relay valves be repaired or replaced as a Safety Defect Campaign and that parking brake relay valves be repaired or replaced as a Field Service Campaign. Repair of each valve should take 0.75 hours. This service will be performed at no cost to the customer.

This action affects all 973 298 004 0 relay valves that were menufactured by Heldex between September 19, 2000 and February 10, 2001 and sold by MaritorWABCO to Magnum Terminal Tractors.

The manufacturing date of the relay valve is identified by a date code on a metal tag attached to one of the four cover boits. The suspect date codes are as follows:

380K	420K	460K	600K	021K
390K	430K	470K	510K	031K
400K	440K	480K	620K	041K

410 K 460K

490K

011K

051K 061K

Magnum Terminal Tractors has determined that Truck Numbers xxxx-yyyy are affected by this recall.

All suspect relay valves should be repaired using Haldex Brake Kit #RN10JY or completely replaced. Vehicles should be taken to an OEM certified dealership to complete this service action. Quastions, requests for literature, and warranty claim processing should be directed to Don Myers at Haldex. He can be reached at telephone number 818-801-2641 or fax number 818-891-9432.

Questions or Complaints:

If you conclude that Meritor WABCO or Magnum Terminal Tractors has not enabled you to remedy this condition in a reasonable time, you may submit a complaint to the:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Weshington, D.C. 205090

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Call the toil free Auto Safety Hotiline: 1-800-DASH - 2 DOT or 1-888-327-4236

Meritor WABCO regrets any inconvenience that this situation may cause. Let me assure you that your safety is our most important concern.

Sincerely.

Meritor WABCO

Bill Brueggemen Warrenty Administrator

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